SIEMENS

## Data sheet 3RW4073-6BB44

SIRIUS soft starter S12 230 A, 132 kW/400 V, 40 °C 200-460 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5073-6AB14<<

| | | |
|---|---|---|
| **General technical data** | | |
| **product brand name** | | SIRIUS |
| **product feature** | | |
| ● integrated bypass contact system | | Yes |
| ● thyristors | | Yes |
| **product function** | | |
| ● intrinsic device protection | | Yes |
| ● motor overload protection | | Yes |
| ● evaluation of thermistor motor protection | | No |
| ● external reset | | Yes |
| ● adjustable current limitation | | Yes |
| ● inside-delta circuit | | No |
| **product component motor brake output** | | No |
| **insulation voltage rated value** | V | 600 |
| **degree of pollution** | | 3, acc. to IEC 60947-4-2 |
| **reference code according to EN 61346-2** | | Q |
| **reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750** | | G |
| **Power Electronics** | | |
| **product designation** | | Soft starter |
| **operational current** | | |
| ● at 40 °C rated value | A | 230 |
| ● at 50 °C rated value | A | 205 |
| ● at 60 °C rated value | A | 180 |
| **yielded mechanical performance for 3-phase motors** | | |
| ● at 230 V | | |
| — at standard circuit at 40 °C rated value | kW | 75 |
| ● at 400 V | | |
| — at standard circuit at 40 °C rated value | kW | 132 |
| **yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value** | hp | 60 |
| **operating frequency rated value** | Hz | 50 ... 60 |
| **relative negative tolerance of the operating frequency** | % | -10 |
| **relative positive tolerance of the operating frequency** | % | 10 |
| **operating voltage at standard circuit rated value** | V | 200 ... 460 |
| **relative negative tolerance of the operating voltage at standard circuit** | % | -15 |
| **relative positive tolerance of the operating voltage at standard circuit** | % | 10 |
| **minimum load [%]** | % | 20 |
| **adjustable motor current for motor overload protection minimum rated value** | A | 80 |

| | | |
|---|---|---|
| **continuous operating current [% of Ie] at 40 °C** | % | 115 |
| **power loss [W] at operational current at 40 °C during operation typical** | W | 90 |
| **Control circuit/ Control** | | |
| **type of voltage of the control supply voltage** | | AC |
| **control supply voltage frequency 1 rated value** | Hz | 50 |
| **control supply voltage frequency 2 rated value** | Hz | 60 |
| **relative negative tolerance of the control supply voltage frequency** | % | -10 |
| **relative positive tolerance of the control supply voltage frequency** | % | 10 |
| **control supply voltage 1 at AC** | | |
| ● at 50 Hz rated value | V | 230 |
| ● at 60 Hz rated value | V | 230 |
| **relative negative tolerance of the control supply voltage at AC at 50 Hz** | % | -15 |
| **relative positive tolerance of the control supply voltage at AC at 50 Hz** | % | 10 |
| **relative negative tolerance of the control supply voltage at AC at 60 Hz** | % | -15 |
| **relative positive tolerance of the control supply voltage at AC at 60 Hz** | % | 10 |
| **display version for fault signal** | | red |
| **Mechanical data** | | |
| **size of engine control device** | | S12 |
| **width** | mm | 160 |
| **height** | mm | 230 |
| **depth** | mm | 278 |
| **fastening method** | | screw fixing |
| **mounting position** | | With additional fan: With vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back Without additional fan: With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° t |
| **required spacing with side-by-side mounting** | | |
| ● upwards | mm | 100 |
| ● at the side | mm | 5 |
| ● downwards | mm | 75 |
| **wire length maximum** | m | 300 |
| **number of poles for main current circuit** | | 3 |
| **Connections/ Terminals** | | |
| **type of electrical connection** | | |
| ● for main current circuit | | busbar connection |
| ● for auxiliary and control circuit | | screw-type terminals |
| **number of NC contacts for auxiliary contacts** | | 0 |
| **number of NO contacts for auxiliary contacts** | | 2 |
| **number of CO contacts for auxiliary contacts** | | 1 |
| **type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point** | | |
| ● finely stranded with core end processing | | 70 ... 240 mm² |
| ● finely stranded without core end processing | | 70 ... 240 mm² |
| ● stranded | | 95 ... 300 mm² |
| **type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point** | | |
| ● finely stranded with core end processing | | 120 ... 185 mm² |
| ● finely stranded without core end processing | | 120 ... 185 mm² |
| ● stranded | | 120 ... 240 mm² |
| **type of connectable conductor cross-sections for main contacts for box terminal using both clamping points** | | |
| ● finely stranded with core end processing | | min. 2x 50 mm², max. 2x 185 mm² |
| ● finely stranded without core end processing | | min. 2x 50 mm², max. 2x 185 mm² |
| ● stranded | | max. 2x 70 mm², max. 2x 240 mm² |
| **type of connectable conductor cross-sections for AWG cables for main contacts for box terminal** | | |
| ● using the back clamping point | | 250 ... 500 kcmil |
| ● using the front clamping point | | 3/0 ... 600 kcmil |

| | | |
|---|---|---|
| ● using both clamping points | | min. 2x 2/0, max. 2x 500 kcmil |
| **type of connectable conductor cross-sections for DIN cable lug for main contacts** | | |
| ● finely stranded | | 50 ... 240 mm² |
| ● stranded | | 70 ... 240 mm² |
| **type of connectable conductor cross-sections for auxiliary contacts** | | |
| ● solid | | 2x (0.5 ... 2.5 mm²) |
| ● finely stranded with core end processing | | 2x (0.5 ... 1.5 mm²) |
| **type of connectable conductor cross-sections for AWG cables** | | |
| ● for main contacts | | 2/0 ... 500 kcmil |
| ● for auxiliary contacts | | 2x (20 ... 14) |
| ● for auxiliary contacts finely stranded with core end processing | | 2x (20 ... 16) |
| **Ambient conditions** | | |
| **installation altitude at height above sea level** | m | 5 000 |
| **environmental category** | | |
| ● during transport according to IEC 60721 | | 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) |
| ● during storage according to IEC 60721 | | 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 |
| ● during operation according to IEC 60721 | | 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 |
| **ambient temperature** | | |
| ● during operation | °C | -25 ... +60 |
| ● during storage | °C | -40 ... +80 |
| **derating temperature** | °C | 40 |
| **protection class IP on the front according to IEC 60529** | | IP00; IP20 with cover |
| **touch protection on the front according to IEC 60529** | | finger-safe, for vertical contact from the front with cover |
| **UL/CSA ratings** | | |
| **yielded mechanical performance [hp] for 3-phase AC motor** | | |
| **● at 220/230 V** | | |
| — at standard circuit at 50 °C rated value | hp | 75 |
| **● at 460/480 V** | | |
| — at standard circuit at 50 °C rated value | hp | 150 |
| **contact rating of auxiliary contacts according to UL** | | B300 / R300 |

**Approvals Certificates**

**General Product Approval**

Confirmation

| EMV | For use in hazard-ous locations | Test Certificates | Marine / Shipping |
|---|---|---|---|
| KC | | Special Test Certific-ate | |

| other | Environment |
|---|---|
| Confirmation | Environmental Con-firmations |

**Further information**

**Simulation Tool for Soft Starters (STS)**
https://support.industry.siemens.com/cs/ww/en/view/101494917
**Information on the packaging**

https://support.industry.siemens.com/cs/ww/en/view/109813875

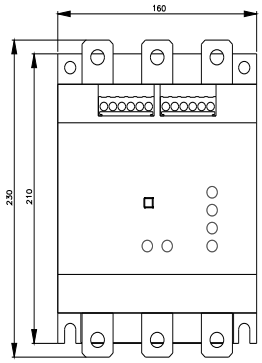
**Information- and Downloadcenter (Catalogs, Brochures,…)**
https://www.siemens.com/ic10

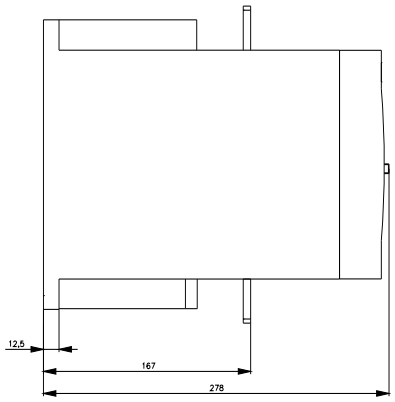
**Industry Mall (Online ordering system)**
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4073-6BB44

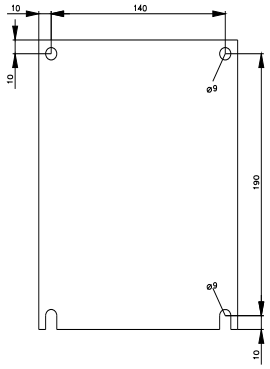
**Cax online generator**
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4073-6BB44

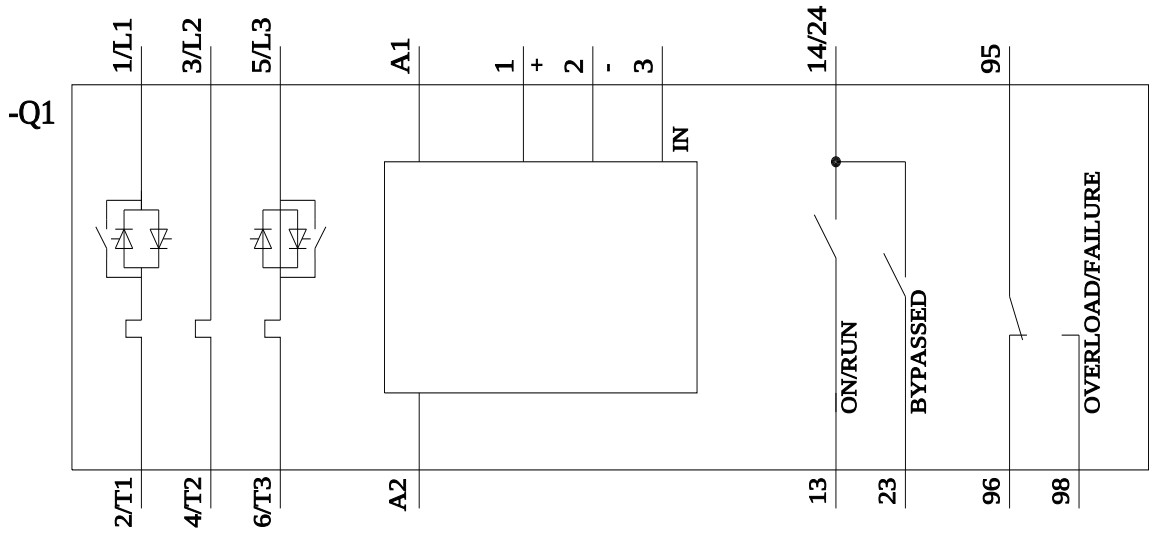
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3RW4073-6BB44

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4073-6BB44&lang=en



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